Choosing the Right Solution

When choosing a network security solution, many factors come into play to select the best fit for your organization's needs and requirements, including appliance size, capabilities, protocol support, and more. This guide compares the OPDS-1000, ReCon, and IXD to help you choose the best fit for your use case requirements.

Product Overview

As Owl's most elite solutions for critical infrastructure, the OPDS-1000 (multi-purpose, one-way data diode), ReCon (bidirectional data diode), and IXD (multi-purpose, one-way and bidirectional industrial cross domain solution) provide hardware-enforced, secure data transfers and support the most popular industrial protocols. Learn more about these solutions to determine the best fit for your use case.

OPDS-1000

One-Way, Multi-Purpose, High Throughput

Optimized for more demanding industrial control applications, the OPDS-1000 provides secure one-way data transfers of multiple data types and formats concurrently. Supporting three configurations, including standard capacity (26 Mbps), mid capacity (155 Mbps), and high capacity (1,000 Mbps), this hardware-enforced solution is EAL 4+ certified and provides a deterministic, one-way link with an absolute protocol break.

ReCon

Bidirectional, Secure Command & Control

ReCon was designed to combine the same proven security benefits of a hardware-enforced data diode cybersecurity solution with the ability to provide secure round trip, bidirectional communication. ReCon is a hardware-based cybersecurity solution utilizing two independent, one-way paths that operate in opposite directions. This solution enables secure, absolute network segmentation, remote command and control, remote monitoring, and SCADA data replication, via TCP/IP with significantly less risk than a standard software firewall.

IXD

One-Way & Bidirectional, Multi-Purpose, High Throughput

Developed specifically for critical infrastructure, IXD is a high availability, hardware-enforced cross domain solution that controls, restricts, and/or filters the flow of information both to and from trusted and untrusted domains, based on an organization’s security policies. IXD supports simultaneous, one-way and bidirectional use cases, as well as multiple protocol adapters, on a single appliance, ensuring fast, effective, and secure data transfers between systems of differing security levels.

Product Comparison

This chart compares the OPDS-1000, ReCon, and IXD to help guide you to select the best fit for your use case and requirements. Learn more about the dimensions of each solution, the capabilities, as well as the protocols supported. Our team is always available to discuss your use case and help you determine the best solution fit, based on your requirements. To get in touch with our team, visit http://owlcyberdefense.com/product/industrial-cross-domain.

		OPDS-1000	ReCon	IXD
TECHNICAL SPECIFICATIONS	**Configurations**	Standard capacity: 26 Mbps, Mid Capacity: 155 Mbps, High Capacity: 1,000 Mbps	104 Mbps	Mid Capacity 1G & High Capacity 10G
	Form Factor	1U Rack Mount	1U Rack Mount	1U Rack Mount
	Dimensions	16.5" W × 1.75" H × 13" D 41.91 cm × 4.5 cm × 33 cm 7.92 lbs./3.6 kg	16.5" W × 1.75" H × 13" D 41.91 cm × 4.5 cm × 33 cm 8.720 lbs./ 3.96 kg	18.875" × 26" × 1.75" 47.9cm × 66cm × 4.45cm 18.5 lbs./ 8.39 kg
	Operating Conditions	32°F to +110°F / 0°C to +43.33°C 5% to 90% humidity non-condensing	32°F to +110°F / 0°C to 43.33°C 20% to 85% humidity non-condensing	-10°C to 50°C / 14°F to 122°F Maximum 90% non-condensing relative humidity
	Power Voltage	Input: 75-230 VAC Estimated Normal operating Usage 10-16 W/side Max. 20W per side	Input: 100-240V AC auto-ranging, min. 30W per side (fused at 1A at IEC connector) Output: 5V at 5A – EU & UK power cables on request	120 VAC @60Hz, 115 VAC 400Hz, 48 VDC
PRODUCT CAPABILITIES	**One-Way Data Transfers**	Yes	No	Yes
	Bidirectional Data Transfers	No	Yes	Yes
	One-Way & Bidirectional Data Transfers	No	No	Yes
	Filtering/ Content Inspection	No	No	Yes
	JDBC/ODBC Database Synchronization	No	No	Yes
	High Availability	UDP only	No	Yes
SUPPORTED SOFTWARE	**Protocol Support**	UDP, TCP/IP, SNMP, SMTP, Syslog, email, HTTP, IEC-104, MQTT, AMQP	TCP, ICCP	UDP, TCP/IP, Syslog, HTTPS, Oracle TNS
	File Transfer	FTP, SFTP, RFTS	RFTS	FTP, FTPS, SFTP
	REST	No	No	Yes
	OSIsoft PI System Transfer	Yes	No	Yes
	OSIsoft Asset Framework Transfer	No	No	Yes
	OPC Transfer	Yes	No	No
	Modbus Transfer	Yes	No	No
	Screen Replication	Yes	No	No
	Remote File Transfer (RFTS)	Yes	Yes	No
	Owl Performance Management	Yes	No	No